10th Class 2019			
Physics	Group-II	Paper-II	
Time: 15 Minutes	(Objective Type)	Max. Marks: 12	

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer-book. Cutting or filling two or more circles will result in zero mark in that question.

### Power of hair dryer:

- (a) 5000 watts (b) 1500 watts
- (c) 1000 watts √ (d) 800 watts

#### The brain of any computer system is:

- (a) Monitor
- (b) Memory
- (c) C.P.U  $\sqrt{\phantom{a}}$  (d) Control unit

#### Speed of light in glass:

- (a)  $2.0 \times 10^8$  m/s  $\sqrt{(b)} 3.0 \times 10^8$  m/s
- (c)  $2.0 \times 10^6$  m/s (d)  $3.0 \times 10^6$  m/s

#### Boolean expression of AND operation:

- (a)  $X = A.B.\sqrt{}$  (b) X = A + B

- (c)  $X = \overline{A}$  (d)  $X = \overline{A.B}$

# Half-life of isotope of cobalt 27 Co:

- (a) 30 years 1/ (b) 20 years
- (c) 15 years (d) 10 years

## The formula for the time period of a simple pendulum:

(a) 
$$T = 2\pi \sqrt{\frac{g}{l}}$$

(a) 
$$T = 2\pi \sqrt{\frac{g}{l}}$$
 (b)  $T = 2\pi \sqrt{\frac{l}{g}} \sqrt{\frac{l}{g}}$   
(c)  $T = 2\pi \sqrt{\frac{m}{k}}$  (d)  $T = 2\pi \sqrt{\frac{k}{m}}$ 

(c) 
$$T = 2\pi \sqrt{\frac{m}{k}}$$

d) 
$$T = 2\pi \sqrt{\frac{k}{m}}$$

7-	Specific resistance of iron: (a) $9.8 \times 10^{-8} \Omega \text{m} \sqrt{}$			
	(b) $100 \times 10^{-8} \Omega n$	n		
	(c) $10.6 \times 10^{-8} \Omega r$			
. 10	(d) $5.25 \times 10^{-8} \Omega$			
8-	Speed of sound in steel at 25°C:			
	(a) 3880 m/s	(b) 5950 m/s		
		(d) 5960 m/s 1/		
9-		induced e.m.f in a circuit is in		
	accordance with conservation of:			
	(a) Mass	(b) Charge		
	(c) Momentum	(d) Energy 1/		
10-	Capacitance is defined as:			
12. 1	(a) VC	(b) $\frac{Q}{V}$ $\sqrt{}$		
	Ba	bulling.		
	(c) QV	(d) $\frac{}{0}$		
11-	Index of refraction of ice:			
	(a) 1.00	(b) 1.33		
•	(c) 1.31 √	(d) 1.36		
12-		which electrons are and a		
	The process by which electrons are emitted by a hot metal surface is known as:			
1	(a) Boiling	(b) Evaporation		
	(c) Conduction	(d) Thermionic emission √		
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